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l21 or l22 9

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## WEST

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L24: Entry 1 of 9

File: USPT

Feb 15, 2000

US-PAT-NO: 6026388

DOCUMENT-IDENTIFIER: US 6026388 A

TITLE: User interface and other enhancements for natural language information retrieval system and method

DATE-ISSUED: February 15, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liddy; Elizabeth D.	Syracuse	NY	N/A	N/A
Paik; Woojin	Syracuse	NY	N/A	N/A
McKenna; Mary E.	Syracuse	NY	N/A	N/A
Weiner; Michael L.	Webster	NY	N/A	N/A
Yu; Edmund S.	DeWitt	NY	N/A	N/A
Diamond; Theodore G.	Mercer Island	WA	N/A	N/A
Balakrishnan; Bhaskaran	Syracuse	NY	N/A	N/A
Snyder; David L.	Pittsford	NY	N/A	N/A

US-CL-CURRENT: 707/1; 704/9, 707/5

## ABSTRACT:

Techniques for generating sophisticated representations of the contents of both queries and documents in a retrieval system by using natural language processing (NLP) techniques to represent, index, and retrieve texts at the multiple levels (e.g., the morphological, lexical, syntactic, semantic, discourse, and pragmatic levels) at which humans construe meaning in writing. The user enters a query and the system processes the query to generate an alternative representation, which includes conceptual-level abstraction and representations based on complex nominals (CNs), proper nouns (PNs), single terms, text structure, and logical make-up of the query, including mandatory terms. After processing the query, the system displays query information to the user, indicating the system's interpretation and representation of the content of the query. The user is then given an opportunity to provide input, in response to which the system modifies the alternative representation of the query. Once the user has provided desired input, the possibly modified representation of the query is matched to the relevant document database, and measures of relevance generated for the documents. A set of documents is presented to the user, who is given an opportunity to select some or all of the documents, typically on the basis of such documents being of particular relevance. The user then initiates the generation of a query representation based on the alternative representations of the selected document(s).

34 Claims, 22 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 21

## WEST

 Generate Collection

L5: Entry 4 of 5

File: USPT

Nov 10, 1998

US-PAT-NO: 5835758

DOCUMENT-IDENTIFIER: US 5835758 A

TITLE: Method and system for representing and processing physical and conceptual entities

DATE-ISSUED: November 10, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nochur; Kumar S.	Cambridge	MA	N/A	N/A
Nihalani; Jaikumar V.	Cambridge	MA	N/A	N/A

US-CL-CURRENT: 707/102

## ABSTRACT:

A computer-based method and system is described for representing, storing, analyzing, processing, and communicating conceptual and physical entities. On a computer display screen, means are presented for users to create a palette of elements to define and describe entities and matters of interest to them. With a palette that they create, or with a previously defined palette, users create computer-based maps containing specific instances, called items, of one or more elements in the palette. Users can link items with line segments, arrows, or other connectors to show the relationships between them. Data, visual, and other attributes may also be defined for the links between items, the maps on which the items and links are defined, and case folders which index the maps and other associated computer-based documents and objects. Associations and connections can be established between a map, or the items or links on it, and other maps and other computer-based documents or objects such as spreadsheets, word processor files, graphical objects, audio objects, and video objects. Rules, heuristics, and norms may be specified for the palette elements, based on which maps may be parsed to see if they are correct, consistent, and complete with regard to the items they contain and the relationships indicated by the links between them. Queries can be made and reports can be generated based on the data and other attributes defined for the items, links, maps, and cases. Items, links, maps, cases, and other computer-based documents and objects can be shared among various users on a computer network. Details regarding actions or responses relating to items, links, maps, cases, and other computer-based documents and objects can be maintained in computer-based organizers, and computer messages can be generated to remind or alert users about their status and the actions to be taken relating to them. A particular embodiment of the present invention that is described here in detail pertains to the domain of purposeful human activities, inter alia goal-setting, problem-solving, decision-making, planning, and action-implementation in individual, group, and organizational settings.

19 Claims, 10 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 10

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 **Generate Collection**

L24: Entry 5 of 9

File: USPT

Oct 6, 1998

US-PAT-NO: 5819295

DOCUMENT-IDENTIFIER: US 5819295 A

TITLE: Document storing and managing system

DATE-ISSUED: October 6, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakagawa; Aki	Kawasaki	N/A	N/A	JPX
Kanno; Yuji	Tokyo	N/A	N/A	JPX
Hata; Tsutomu	Tokyo	N/A	N/A	JPX

US-CL-CURRENT: 707/203; 717/3

## ABSTRACT:

A document storing and managing system for storing plural electronic documents in each of folders according to classifications and managing the stored electronic documents in a unit of the folder has a folder managing means for managing attributes of the electronic documents included in each of the folders, a document version managing means for managing information as to version of the electronic documents included in each of the folder, and a folder version managing means for managing a correspondence relation between a version of the folder and a version of each of the electronic documents included in the folder. The document storing and managing system of this invention may set and manage a version of a folder while keeping adjustability with a version of each document.

20 Claims, 16 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 15

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 **Generate Collection**

L5: Entry 3 of 5

File: USPT

Jan 5, 1999

US-PAT-NO: 5857203

DOCUMENT-IDENTIFIER: US 5857203 A

**TITLE:** Method and apparatus for dividing, mapping and storing large digital objects in a client/server library system

DATE-ISSUED: January 5, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kauffman; Steven Victor	San Jose	CA	N/A	N/A
Lewis; Lara Marie	Campbell	CA	N/A	N/A
Parrish; Ronald Elliott	San Jose	CA	N/A	N/A

US-CL-CURRENT: 707/200; 707/10, 707/103

## ABSTRACT:

The present invention is directed to a method and apparatus for supporting large digital objects. More particularly it relates to a client/server library system in which a large digital object is divided into smaller pieces which are stored in the client/server library system. By dividing the large digital object into smaller pieces, system limitations regarding object size are avoided. In one embodiment of the present invention the pieces are stored as files of variable size. Moreover, the pieces can be stored on separate object servers which can be located remotely from one another.

36 Claims, 5 Drawing figures Exemplary Claim Number: 17  
Number of Drawing Sheets: 5

**WEST****End of Result Set** 

L5: Entry 5 of 5

File: USPT

Jul 7, 1998

US-PAT-NO: 5778381

DOCUMENT-IDENTIFIER: US 5778381 A

TITLE: Computer aided maintenance and repair information system for equipment  
subject to regulatory compliance

DATE-ISSUED: July 7, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sandifer; Michael A.	Millbrae	CA	N/A	N/A

US-CL-CURRENT: 707/104; 701/29, 701/30, 707/103

## ABSTRACT:

A computer based apparatus and method which provide access to complex technical information employed to maintain and repair complicated equipment, such as aircraft, to enable compliance with regulatory requirements.

20 Claims, 114 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 113

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L9: Entry 2 of 4

File: USPT

Dec 21, 1999

US-PAT-NO: 6006242

DOCUMENT-IDENTIFIER: US 6006242 A

TITLE: Apparatus and method for dynamically creating a document

DATE-ISSUED: December 21, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Poole; Donald L.	St. Cloud	MN	N/A	N/A
Wyman; Richard K.	St. Cloud	MN	N/A	N/A

US-CL-CURRENT: 707/531

## ABSTRACT:

An apparatus and method for dynamically constructing electronic and printable documents and forms. An entity reference is read from a document instance and compared to entity identifiers provided in a catalog containing a plurality of entity identifiers. Each of the entity identifiers in the catalog is associated with an entity resolution process. An inference engine or other entity resolving processor is invoked to effectuate the resolution process associated with a matching entity identifier. The inference engine or entity resolving processor resolves the entity reference to a resolved entity, such as a component of text or graphics to be included in a document. Linking between the document, entity reference, and resolved entity provides for detailed auditing of the entity resolution process. A resolved entity may contain one or more embedded entity references which are similarly resolved. The dynamic document construction methodology may be implemented using a distributed networking approach, or on a stand-alone computer system. A significant advantage of the present invention concerns the re-usability of textual, graphical, and other components, thereby providing for the construction of any arbitrary document type having any arbitrary number of presentation formats. In one embodiment, the inference engine used to resolve entity references is converted to an executable form to enhance portability. A document or form constructed in accordance with the present invention may be published in printed or electronic form, such as in the form of a World Wide Web (Web) page.

26 Claims, 29 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 29

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L24: Entry 2 of 9

File: USPT

Dec 28, 1999

US-PAT-NO: 6009442

DOCUMENT-IDENTIFIER: US 6009442 A

TITLE: Computer-based document management system

DATE-ISSUED: December 28, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Ying-Jye James	San Jose	CA	N/A	N/A
Ferguson; David R.	Fremont	CA	N/A	N/A
Hong; An N.	Mountain View	CA	N/A	N/A
Suleman; Dani	Fremont	CA	N/A	N/A
Whittemore; Gregory L.	San Jose	CA	N/A	N/A

US-CL-CURRENT: 707/522; 707/500

## ABSTRACT:

A computer-based electronic document and/or paper-based document management application program. The program provides an efficient way to automatically import, index, categorize, store, search, retrieve, manipulate and archive electronic documents. The program is also capable of managing documents regardless of document type or document format.

24 Claims, 24 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 18

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L24: Entry 3 of 9

File: USPT

Oct 5, 1999

US-PAT-NO: 5963940

DOCUMENT-IDENTIFIER: US 5963940 A

TITLE: Natural language information retrieval system and method

DATE-ISSUED: October 5, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liddy; Elizabeth D.	Syracuse	NY	N/A	N/A
Paik; Woojin	Syracuse	NY	N/A	N/A
McKenna; Mary E.	Syracuse	NY	N/A	N/A
Li; Ming	Jersey City	NJ	N/A	N/A

US-CL-CURRENT: 707/5; 704/9

## ABSTRACT:

Techniques for generating sophisticated representations of the contents of both queries and documents in a retrieval system by using natural language processing (NLP) techniques to represent, index, and retrieve texts at the multiple levels (e.g., the morphological, lexical, syntactic, semantic, discourse, and pragmatic levels) at which humans construe meaning in writing. The user enters a query and the system processes the query to generate an alternative representation, which includes conceptual-level abstraction and representations based on complex nominals (CNs), proper nouns (PNs), single terms, text structure, and logical make-up of the query, including mandatory terms. After processing the query, the system displays query information to the user, indicating the system's interpretation and representation of the content of the query. The user is then given an opportunity to provide input, in response to which the system modifies the alternative representation of the query. Once the user has provided desired input, the possibly modified representation of the query is matched to the relevant document database, and measures of relevance generated for the documents. A set of documents is presented to the user, who is given an opportunity to select some or all of the documents, typically on the basis of such documents being of particular relevance. The user then initiates the generation of a query representation based on the alternative representations of the selected document(s).

6 Claims, 22 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 21